ST. LOUIS PUBLIC SCHOOLS



Language Companion to the DESE Math Model Curriculum, Grade 2

Developed as part of Saint Louis Public Schools "Math Success for ELLs" grant, a partnership between Webster University, Magic House, and Saint Louis Public Schools ESOL Program, funded by the US department of Education

Essential Measurable	Language Objective	Sentence Frame
Learning Objectives		
Students will fluently	Students will respond to a given	The sum is
add within 100.	addition problem orally.	
Students will add two-	Students will explain orally the	To add+:
digit numbers	process using sequence words and	First
using strategies based	target vocabulary: regroup, addition,	Next
on place value.	addend, sum, place value, add, first,	Then
on place value.	next, then, and last.	Last
		The sum is
Students will solve	Students will describe the process	The sum is To add++:
addition problems with	using target math vocabulary and	First
up to four addends.	sequence words.	Next
		Then
		Last
		The sum is
Students will fluently	Students will respond orally using a	The difference is
subtract within 100.	complete sentence.	
Students will subtract	Students will explain the strategies	To subtract :
two-digit numbers using	using sequence words and target	First
strategies based on place	vocabulary: regroup, subtraction,	Next
value.	minus, difference, place value,	Then
	subtract, first, next, then, and last.	Last
		The difference is
Students will add three-	Students will explain orally the	 To add+:
digit numbers within	strategies using sequence words and	First
1000 using place value	target vocabulary: <i>regroup, addition,</i>	Next
strategies and concrete	addend, sum, place value, add, first,	Then
materials.	next, then, and last.	Last
		The sum is
Students will subtract	Students will explain orally the	To subtract:
three-digit numbers	strategies using sequence words and	First
within 1000 using place	target vocabulary: <i>regroup</i> ,	Next
value strategies and	subtraction, minus, difference, place	Then
concrete materials.	value, subtract, first, next, then, and	Last
	last.	The difference is
Students will model how	Students will justify an addition	To solve the problem I used

Grade 2- Add and Subtract Within 1000

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addition and subtraction strategies work using objects, mathematical properties and drawings.	sentence/subtraction sentence to a partner using complete sentences.	
Students will demonstrate and explain addition and subtraction involving place value and concrete models.	Students will describe orally to a partner addition/subtraction problems using complete sentences and sequence vocabulary (<i>first, next, then, last</i>).	To solve this problem I used (<i>manipulatives</i>). First Next Then Last The answer is
Students will choose the most appropriate and efficient strategy for a problem and explain why they chose it.	Students will explain the strategy orally using complete sentences.	I chose to use to solve this problem because

Grade 2- Geometry

Essential Measurable	Language Objective	Sentence Frame
Learning Objectives	0 0 V	
Students will identify	Students will label shapes using	
triangles, quadrilaterals,	target vocabulary: <i>triangles</i> ,	
pentagons, hexagons,	quadrilaterals, pentagons,	
and cubes.	hexagons, and cubes.	
Students will use	Students will list defining attributes	I know this shape is a because the
defining attributes	and 2D and 3D shapes using the	attributes are
(number, size and	target vocabulary: sides, angles,	
position of sides, angles		
and faces) to describe	closed, line, faces, position, number.	
and compare two- and		
three-dimensional		
figures.		
Students will	Students will apply the target	
draw/construct shapes	vocabulary by listening to a	
having specified	description of a shape and drawing	
attributes (i.e., number	it.	
of angles or number of		
equal faces).		
Students will arrange	Students will describe orally an	If there are rows and each row has,
objects in rectangular	array using <i>ifthen</i> statements.	then I can add each row and the sum will be
arrays, then write and		
solve equations to		
express the total as a		
sum of equal addends		
using repeated addition.		
Students will partition a	Students will describe orally a	If there are rows and columns, then
rectangle into rows and	rectangle partitioned into rows and	I can count to find the total units.
columns of same-size	columns using <i>ifthen</i> statements.	
units and count to find		
the total number of		
them.		

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Students will partition circles and rectangles into two, three, or four equal shares, then describe the parts and the whole using accurate mathematical terminology (<i>halves</i> , <i>thirds</i> , <i>half of</i> , <i>a third of</i> ; <i>two halves</i> , <i>three thirds</i> , <i>four fourths</i> , etc.).	Students will describe orally and in writing how the shapes have been divided using target vocabulary: equal, circles, squares, rectangles, same as, halves, thirds, fourths.	This has equal parts because each part is the same size. I call each equal part Example: This circle has two equal parts because each part is the same size. I call each equal part one-half.
Students will demonstrate that halves, thirds, fourths of identical wholes need not have the same shape.	Students will explain orally the concept using complete sentences.	This part is and this part is, because they are the same size/area.

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Grade 2 – Representing Data

Essential Measurable Learning Objectives	Language Objective	Sentence Frame
Students will measure and record lengths of several objects to the nearest whole unit (cm or in).	Students will write lengths of several objects using target vocabulary: <i>length, cm, inches</i> .	The length of iscm/in.
Students will represent whole numbers on a number line with equally spaced units.	Students will describe orally numbers on their number line using positional terms: <i>left, right,</i> <i>before, after, between.</i>	
Students will create a line plot to represent length measurements.	Students will describe their method for creating a line plot orally using sequence words.	First Next Then Last
Students will interpret data from a line plot.	Students will write observational statements using complete sentences.	In this line plot, I notice
Students will draw a picture graph with a single unit scale to represent four categories of data.	Students will describe orally their method for creating a picture graph using sequence words.	First Next Then Last
Students will interpret data on a picture graph with a single unit scale to represent four categories of data.	Students will write observational statements using complete sentences.	In this picture graph, I notice
Students will draw a bar graph with a single unit scale to represent four categories of data.	Students will describe orally their method for creating a bar graph using sequence words.	First Next Then Last
Students will represent	Students will justify their number	My equation is because

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a mathematical situation with an expression or an equation/number sentence.	sentence/equation orally using a complete sentence.	
Students will solve simple put- together/take-apart problems using data from a bar graph with up to four categories of data.	Students will describe combinations of data sets from a bar graph orally using a complete sentence.	The number of and the number of equals
Students will solve simple comparison problems using data from a bar graph with up to four categories of data.	Students will describe interpretations of a bar graph orally using comparative language: <i>less than, more than,</i> <i>fewer than.</i>	 has less than has fewer than has more than has more than has less than

Essential Measurable Learning Objectives	Language Objective	Sentence Frame
Students will identify and state the value of pennies, nickels, dimes, and quarters.	Students will write the value of each coin next to its picture in complete sentences.	A (coin) is worth cent(s).
Students will read/record money amounts using \$ and ¢ symbols appropriately.	Students will list money amounts in two ways.	
Students will exchange coins for an equivalent amount.	Students will ask a partner for an equivalent amount of money using a complete sentence.	"I have¢. Will you please give me (<i>the same/equivalent</i>) amount using different coins?"
Students will determine the value of sets of coins.	Students will describe their method for finding the value of a group of coins orally.	
Students will select coins to obtain a given value.	Students will draw and label the coins needed to represent a given amount.	
Students will make change from amounts up to one dollar.	Students will describe their method for finding change orally using target vocabulary: <i>change</i> , <i>quarters</i> , <i>dimes</i> , <i>nickels</i> , <i>pennies</i> , <i>spent</i> .	
Students will solve word problems involving dollar bills, quarters, dimes, nickels, and pennies.	Students will explain story problems and solutions involving money orally.	If I buy (an item) for¢ and another (item) for¢, I can pay with quarters, dimes, nickels, and/or pennies.

Grade 2 – Solving Problems Involving Money

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Essential Measurable	Language Objective	Sentence Frame
Learning Objectives		
Students will count	Students will describe orally the	I will start with and stop at
within 1,000.	strategy they used to count up to 1000.	by counting on
Students will skip count by 5s, 10s, and 100s to 1,000.	Students will explain orally how to count a large amount by skip counting using complete sentences.	I can skip count this group by (5s, 10s, 100s).
Students will read numbers to 1,000.	Students will read a series of numbers orally.	
Students will use numerals to write numbers to 1,000.	Students will listen to a partner read a number, and then write the number in standard form.	Example: Students will write 343 after hearing three hundred forty-three.
Students will model numbers to 1,000 in a variety of ways.	Students will explain a model to illustrate a given number orally using target vocabulary: <i>ones</i> , <i>tens</i> , <i>hundreds</i> , <i>thousands</i> .	For the number I have hundreds, tens, and ones that I have shown with
Students will identify 100 as the same as ten – tens.	Students will describe the relationship between tens and hundreds using target vocabulary: <i>tens, hundred, equivalent to,</i> <i>equal to, groups.</i>	groups of ten are 100
Students will identify and represent the value of the digits in a three- digit number.	Students will state the value of numbers using the target vocabulary: <i>ones, tens, hundreds</i> .	In the number, there are hundreds, tens, and ones.
Students will show the value of a zero in a three-digit number, including multiples of 100.	Students will state the value of the zero in 2 three-digit numbers where zero is in two different positions using a comparative statement.	In the number, the zero represents 0, but in, the zero represents 0 Example: In the number 804, the zero represents 0 tens, but in 840, the zero
Students will write	Studente will state a given three	represents 0 ones.
Students will write	Students will state a given three-	The number in expanded form is

Grade 2 – Understanding Place Value to 1,000

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three-digit numbers in expanded form.	digit number in expanded form orally using a complete sentence.	plus plus equals
Students will order and compare three-digit numbers using <, =, or > symbols to record comparison. Students will add 10 or	Students will read the number sentence orally using comparative adjectives in place of the math symbols: (greater than, less than, or equal to). Students will describe orally how	 is greater than is less than is equal to When adding 10, the digit in the tens
100 to a three-digit number.	number value changes using complete sentences.	When adding 100, the digit in the hundreds place
Students will subtract 10 or 100 from a three- digit number.	Students will describe orally how number value changes using complete sentences.	When subtracting 10, the digit in the tens place When subtracting 100, the digit in the hundreds place

Essential Measurable Learning Objectives	Language Objective	Sentence Frame
Students will identify, show and write the time to the five minutes using digital and analog clocks.	Students will state the time using target vocabulary: hour, minute, o'clock, quarter after, quarter to, quarter of, quarter til, half past, before.	The time is
	Students will explain how they found the time using target vocabulary: <i>hour hand, minute</i> <i>hand, o'clock, after, before.</i>	I know the time is because the hour hand is pointing in front of, before, after the and the minute hand is pointing to
		Example: <i>I know the time is 6 o'clock because the hour hand is pointing to the 6 and the minute hand is pointing to the 12.</i>
Students will read and express time in terms of quarter past, half past, and quarter till the hour.	Students will state the time using target vocabulary: <i>hour, minute,</i> <i>o'clock, quarter after, quarter to,</i> <i>quarter of, quarter til, half past,</i> <i>before.</i>	The time is
Students will use A.M. and P.M. to identify a corresponding time.	Students will describe in writing the time shown in a picture using target vocabulary: <i>am</i> , <i>pm</i> .	In this picture of, the time would be AM/PM. Example: In this picture of a girl eating breakfast, the time would be 7:00 AM.
Students will order events by time.	Students will list 4 events from their day in chronological order using sequence words.	

Grade 2 – Work with Time

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